

ASTM D1621 Compression Platens

Compression Platens for Rigid Cellular Plastics

Built to ASTM D1621 — Standard Test Method for Compressive Properties of Rigid Cellular Plastics

OVERVIEW

Compression platen set for rigid cellular plastics. Flat, parallel platens, with a self-aligning spherically seated upper platen, load foam specimens uniformly over their full face, allowing compressive strength at yield or at 10% deformation and compressive modulus to be determined.

KEY FEATURES

- Large, flat platens cover the full specimen face
- Spherically seated upper platen for self-alignment
- Precision-ground, parallel bearing surfaces
- Platen sizes to suit common foam specimens
- Supplied with adapters to suit your load frame

TECHNICAL SPECIFICATIONS

Test method	Compressive properties of rigid cellular plastics
Test type / loading	Uniaxial compression at constant rate
Specimens	Foam blocks per ASTM D1621 geometry
Load capacity	10 kN standard; higher capacities on request
Fixture material	Hardened steel or aluminum, corrosion-resistant finish
Contact surfaces	Precision-ground platens; spherically seated upper platen
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical universal test machines

APPLICATIONS

- Rigid insulation foam QC
- Polyurethane and polystyrene foams
- Structural core foams
- Packaging foam evaluation

ABOUT THE STANDARD

ASTM D1621 determines the compressive properties of rigid cellular materials, particularly expanded plastics such as polyurethane, polystyrene and polyisocyanurate foams. Specimens are compressed at a defined rate, and compressive strength is reported at yield or at 10% deformation if no yield occurs, together with compressive modulus. Results support insulation and structural foam specifications.

Ordering & customization: Specify platen diameter or size, specimen dimensions, required capacity and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-D1621-CP